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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/521,320	07/25/2005	Birger Hansson	5822.315USWO 1474		
23552 MERCHANT &	7590 01/11/2008	EXAMINER			
P.O. BOX 2903			CULLER, JILL E		
MINNEAPOLI	S, MN 55402-0903		ART UNIT	PAPER NUMBER	
			2854		
			MAIL DATE	DELIVERY MODE	
			01/11/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		Application	Application No. Applicant(s)						
		10/521,32	0/521,320 HANSSON ET AL.						
		Examiner		Art Unit					
		Jill E. Culle	er	2854					
Period fo	The MAILING DATE of this communication a or Reply	ppears on the	cover sheet with the c	orrespondence addres	s				
A SHO WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REP CHEVER IS LONGER, FROM THE MAILING asions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. period for reply is specified above, the maximum statutory perior to reply within the set or extended period for reply will, by state eply received by the Office later than three months after the mailed and patent term adjustment. See 37 CFR 1.704(b).	DATE OF TH 1.136(a). In no even od will apply and wi tute, cause the app	IIS COMMUNICATION ent, however, may a reply be tim II expire SIX (6) MONTHS from lication to become ABANDONE	I. lely filed the mailing date of this commu D (35 U.S.C. § 133).					
Status									
1)[Responsive to communication(s) filed on 05	November 2	007 .						
· <u> </u>	This action is FINAL . 2b)⊠ This action is non-final.								
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is								
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
Dispositi	on of Claims								
4)🖂)⊠ Claim(s) <u>1-8</u> is/are pending in the application.								
	4a) Of the above claim(s) is/are withdrawn from consideration.								
5)	Claim(s) is/are allowed.								
6)⊠	Claim(s) <u>1-8</u> is/are rejected.								
7)	Claim(s) is/are objected to.								
8)□	8) Claim(s) are subject to restriction and/or election requirement.								
Applicati	on Papers								
9)	The specification is objected to by the Exami	ner.							
10)🛛	The drawing(s) filed on <u>18 November 2004</u> is	s/are: a)⊠ a	ccepted or b) object	ed to by the Examiner					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).									
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).									
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.									
Priority u	ınder 35 U.S.C. § 119								
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:									
	1. Certified copies of the priority documents have been received.								
	2. Certified copies of the priority documents have been received in Application No								
	3. Copies of the certified copies of the priority documents have been received in this National Stage								
+ 0	application from the International Bure	•	, .,						
	See the attached detailed Office action for a li	st of the certi	fied copies not receive	ed.					
Attachmen	` '								
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)		4) Interview Summary Paper No(s)/Mail Da						
	e of Draπsperson's Patent Drawing Review (P1O-948) nation Disclosure Statement(s) (PTO/SB/08)		5) Notice of Informal P						
	Paper No(s)/Mail Date 6) Other:								

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-5 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 5,299,495 to Schoeps et al. in view of U.S. Patent No. 5,040,457 to Lin.

With respect to claim 1, Schoeps et al. teaches a method for keeping a number of spray nozzles, 7, in a printing press spray beam clean, wherein air with a certain flow rate is supplied to separate covers, each separate cover surrounding a single spray nozzle and having an opening for a spray cone from the spray nozzle, wherein the air flow rate is controlled by means of a throttling device connected to each separate cover, and wherein the air flow is low enough not to disturb the spray from the nozzle. See column 3, lines 21-24 and column 4, lines 19-23 and lines 54-59.

Schoeps et al. does not explicitly teach that the opening is constructed to not disturb the spray from the nozzle. Although the term disturb has a broad definition, it is acknowledged that Schoeps et al. teaches the openings are covered by screens and therefore one having ordinary skill in the art would likely consider the spray to be disturbed as it passed through these screens.

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Lin teaches spray nozzles in a printing press spray beam wherein an opening for a spray cone from the spray nozzle is constructed so as not to disturb the spray from the nozzle. See column 3, lines 4-19 and Fig. 2.

It would have been obvious to one having ordinary skill in the art at the time of the invention to modify the spray nozzles of Schoeps et al. to have openings which do not disturb the spray from the nozzle, as taught by Lin, in order to allow the spray to leave the spray beam more smoothly.

With respect to claim 2, Schoeps et al. teaches a device for keeping a number of spray nozzles, 7, in a printing press spray beam clean, each spray nozzle being surrounded by a separate cover comprising an opening for a spray cone from the spray nozzle, wherein each cover is connected to air flow control means, each air flow control means comprising a throttling device that restricts the air flow enough to leave the spray cone undisturbed. See column 3, lines 21-24 and column 4, lines 19-23 and lines 54-59.

Schoeps et al. does not explicitly teach that the opening is constructed to not disturb the spray from the nozzle. Although the term disturb has a broad definition, it is acknowledged that Schoeps et al. teaches the openings are covered by screens and therefore one having ordinary skill in the art would likely consider the spray to be disturbed as it passed through these screens.

Lin teaches spray nozzles in a printing press spray beam wherein an opening for a spray cone from the spray nozzle is constructed so as not to disturb the spray from the nozzle. See column 3, lines 4-19 and Fig. 2.

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It would have been obvious to one having ordinary skill in the art at the time of the invention to modify the spray nozzles of Schoeps et al. to have openings which do not disturb the spray from the nozzle, as taught by Lin, in order to allow the spray to leave the spray beam more smoothly.

With respect to claims 3 and 4, Schoeps et al. teaches that the opening in the cover has the form of a slot and each cover is provided with a drainage hole. See column 4, lines 54-66 and Fig. 1.

With respect to claim 5, Schoeps et al. teaches an external air conduit, 17, connected to the covers. See column 3, lines 54-56.

With respect to claim 8, Schoeps et al. teaches each cover is formed as a short sleeve connected to a spray valve cap and having an end plate, 12, 13, attached to its end remote from the spray nozzle, the end plate being provided with the opening. See column 3, lines 27-38 and Fig. 2.

3. Claims 6-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schoeps et al. in view of Lin, as applied to claims 1-5 and 8 above, and further in view of U.S. Patent No. 2,448,226 to Marsden.

Schoeps et al. and Lin teach all that is claimed, as in the above rejection of claims 1-5 and 8, except that a spray valve for the spray nozzle is provided with an internal air conduit and an air bore connected to the cover, wherein the air bore has such a diameter that a throttling effect is obtained.

Marsden teaches a spray valve for a spray nozzle, G, provided with an internal air conduit, 45, and an air bore, 46, connected to the cover, wherein the air bore has such a diameter that a throttling effect is obtained. See column 4, lines 45-62 and Fig. 3.

It would have been obvious to one having ordinary skill in the art at the time of the invention to further modify the apparatus of Schoeps et al. to have the internal air conduit and air bore of Marsden in order to better control the direction of the air flow into the cover.

Response to Arguments

4. Applicant's arguments with respect to the claims have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jill E. Culler whose telephone number is (571) 272-2159. The examiner can normally be reached on M-F 10:00-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Judy Nguyen can be reached on (571) 272-2258. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

jec

Primary Examiner

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